

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101525\
 Data File : VX048188.D
 Acq On : 15 Oct 2025 14:15
 Operator : JC/MD
 Sample : Q3345-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 16 04:05:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

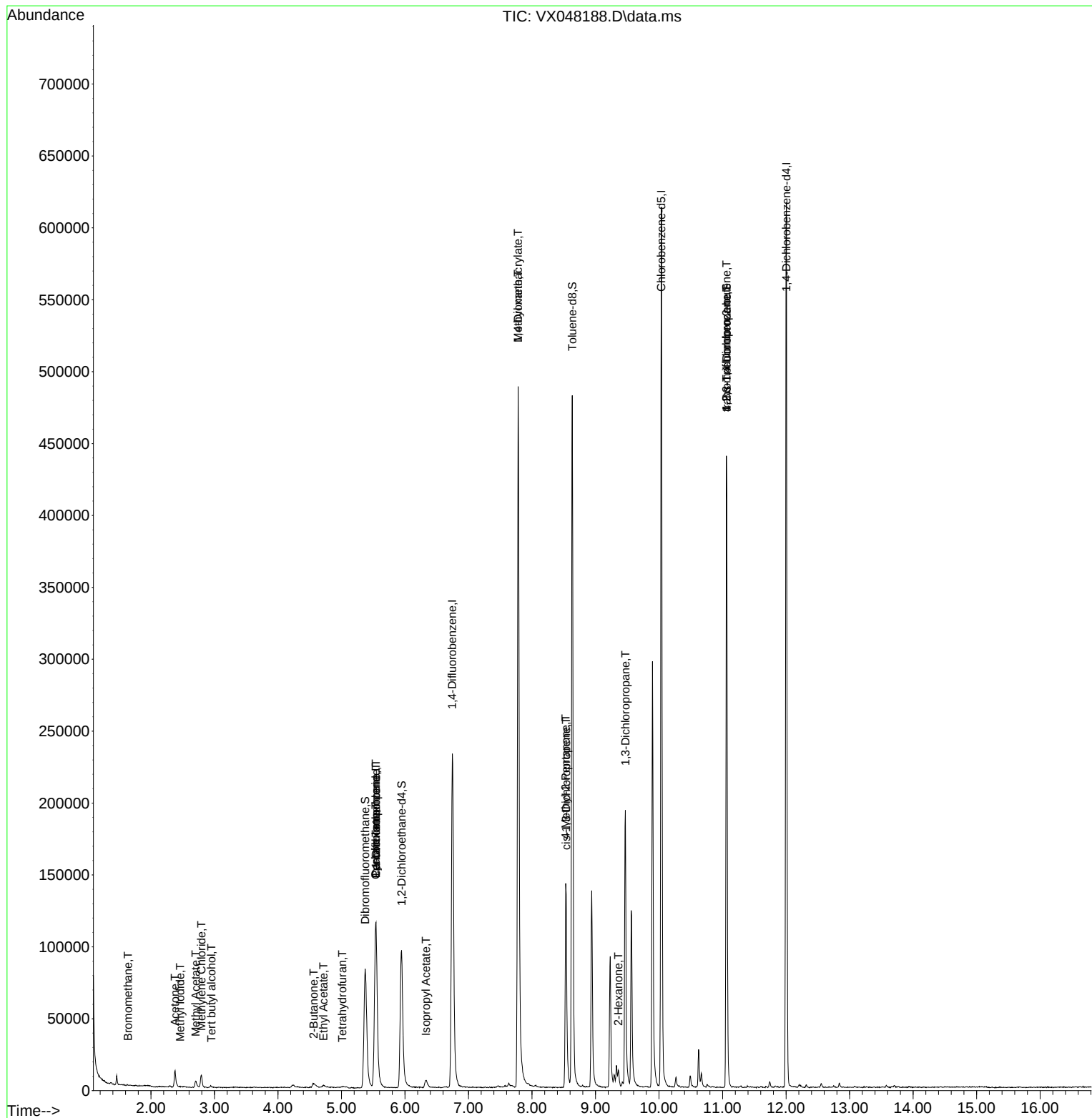
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	119461	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	249438	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	270971	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	131653	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	104673	55.047	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	110.100%
35) Dibromofluoromethane	5.373	113	81366	48.639	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.280%
50) Toluene-d8	8.635	98	293894	50.772	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	101.540%
62) 4-Bromofluorobenzene	11.061	95	123837	56.371	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	112.740%
Target Compounds						
					Qvalue	
5) Bromomethane	1.636	94	253	0.251	ug/l #	58
10) Methyl Iodide	2.459	142	640	0.297	ug/l #	84
11) Tert butyl alcohol	2.953	59	552	2.606	ug/l #	72
16) Acetone	2.380	43	15137	18.308	ug/l	99
18) Methyl Acetate	2.703	43	6952	3.778	ug/l	98
20) Methylene Chloride	2.794	84	4166	2.380	ug/l	91
25) 2-Butanone	4.562	43	6741	6.536	ug/l #	90
29) Tetrahydrofuran	5.013	42	364	0.587	ug/l #	38
31) Cyclohexane	5.538	56	2545	1.013	ug/l #	6
36) 1,1-Dichloropropene	5.544	75	9290	3.800	ug/l #	50
37) Ethyl Acetate	4.715	43	3130	1.196	ug/l #	91
38) Carbon Tetrachloride	5.544	117	12745	4.799	ug/l #	19
43) Isopropyl Acetate	6.330	43	8446	1.968	ug/l #	86
48) Methyl methacrylate	7.781	41	49764	23.274	ug/l #	47
49) 1,4-Dioxane	7.781	88	56	2.592	ug/l #	1
51) 4-Methyl-2-Pentanone	8.531	43	56595	23.780	ug/l #	51
54) cis-1,3-Dichloropropene	8.537	75	24709	7.939	ug/l #	65
57) 1,3-Dichloropropane	9.470	76	1673	0.552	ug/l #	42
59) 2-Hexanone	9.360	43	7217	4.222	ug/l #	26
76) 1,2,3-Trichloropropane	11.061	75	65566	24.597	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.061	75	65566	62.727	ug/l #	8

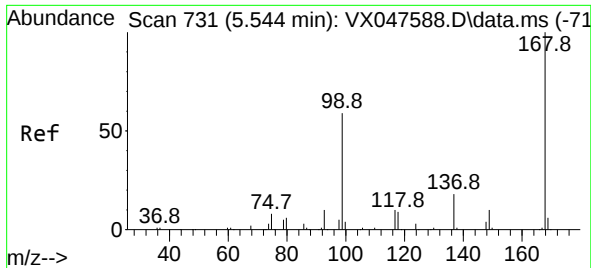
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampleId :

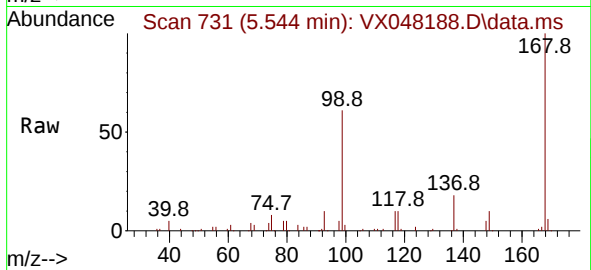
Quant Time: Oct 16 04:05:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
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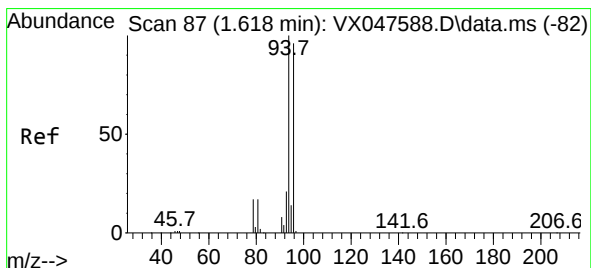
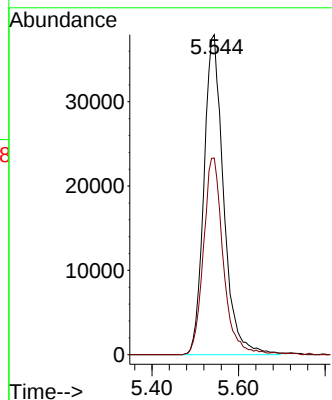
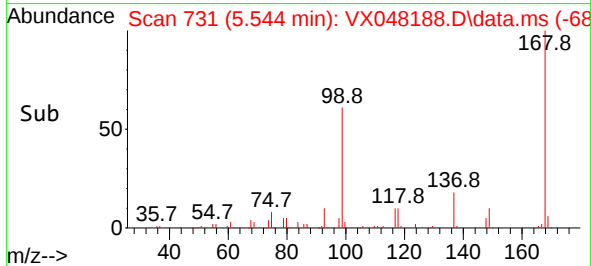


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

Instrument :
MSVOA_X
ClientSampleId :

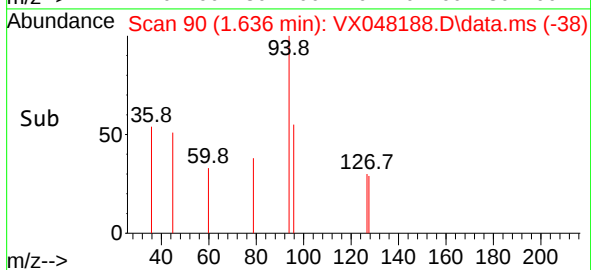
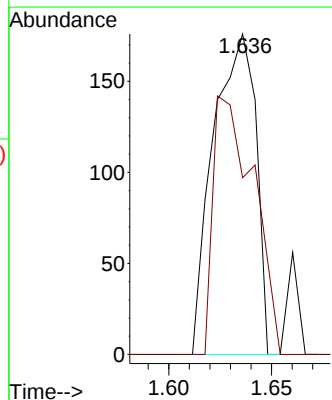
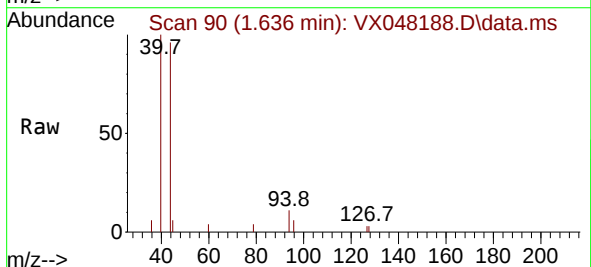


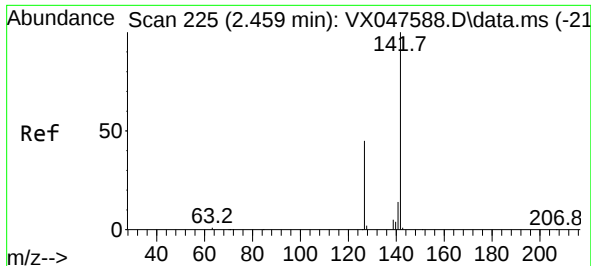
Tgt Ion:168 Resp: 119461
Ion Ratio Lower Upper
168 100
99 61.5 48.8 73.2



#5
Bromomethane
Concen: 0.251 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.018 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

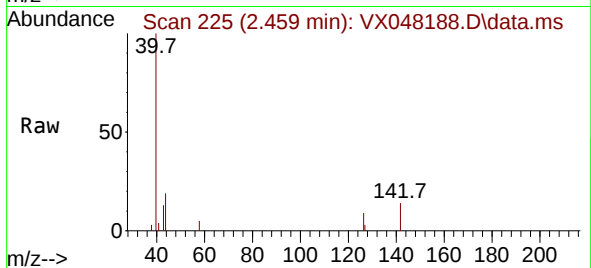
Tgt Ion: 94 Resp: 253
Ion Ratio Lower Upper
94 100
96 55.1 76.6 115.0#



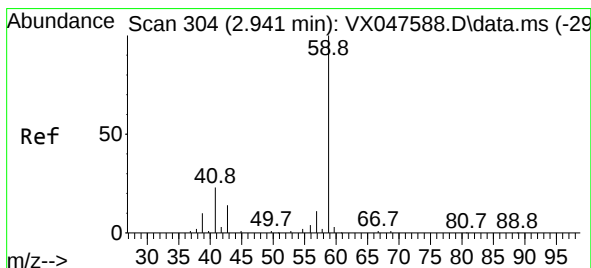
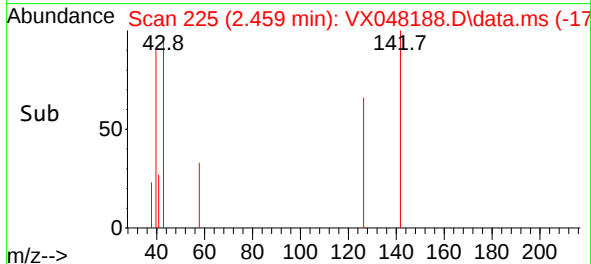
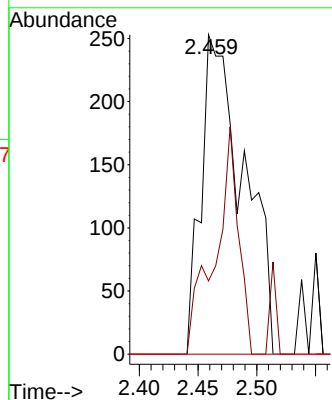


#10
Methyl Iodide
Concen: 0.297 ug/l
RT: 2.459 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

Instrument :
MSVOA_X
ClientSampleId :

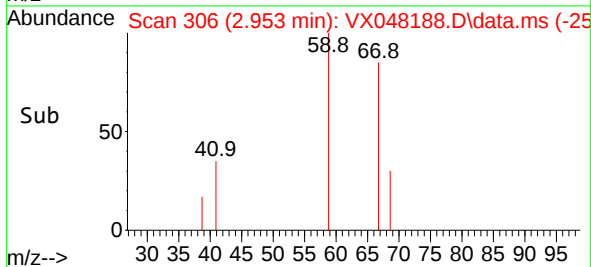
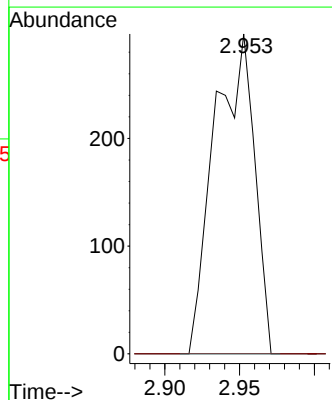
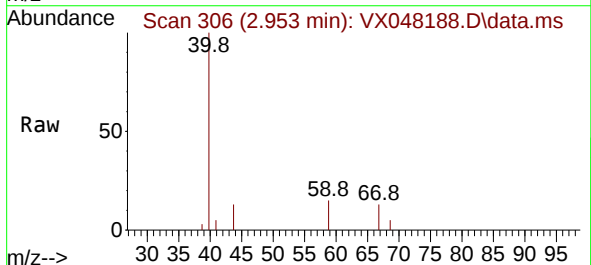


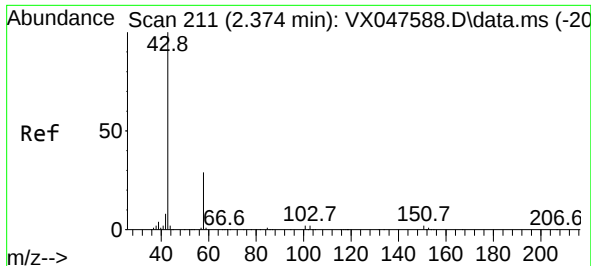
Tgt Ion:142 Resp: 640
Ion Ratio Lower Upper
142 100
127 39.5 37.2 55.8
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.606 ug/l
RT: 2.953 min Scan# 306
Delta R.T. 0.012 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

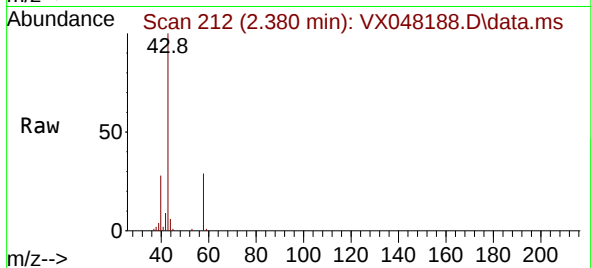
Tgt Ion: 59 Resp: 552
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



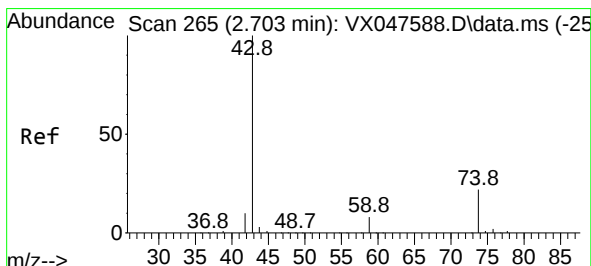
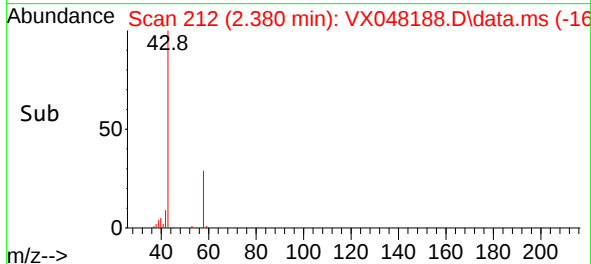
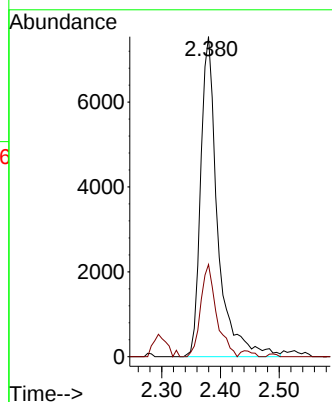


#16
Acetone
Concen: 18.308 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

Instrument :
MSVOA_X
ClientSampleId :

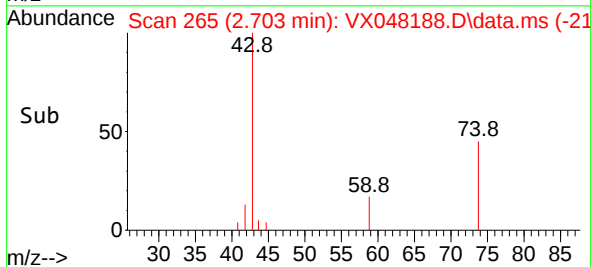
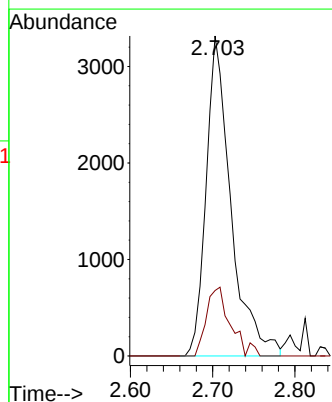
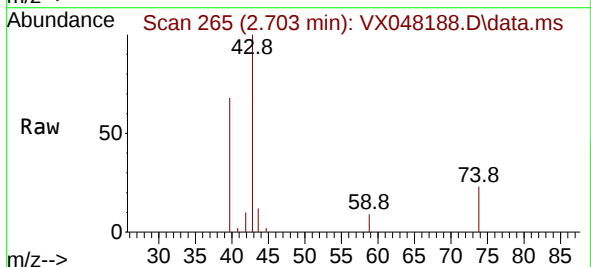


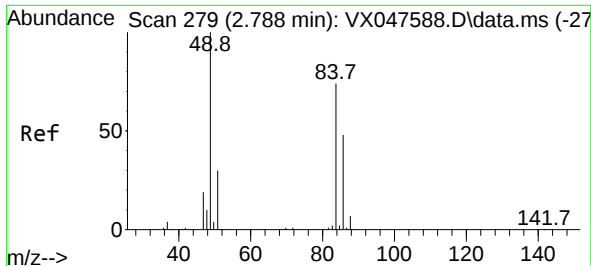
Tgt Ion: 43 Resp: 15137
Ion Ratio Lower Upper
43 100
58 28.8 23.4 35.0



#18
Methyl Acetate
Concen: 3.778 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

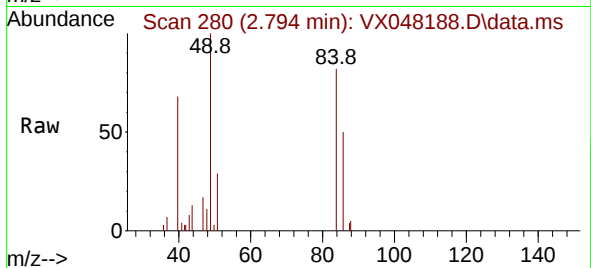
Tgt Ion: 43 Resp: 6952
Ion Ratio Lower Upper
43 100
74 20.8 17.4 26.2



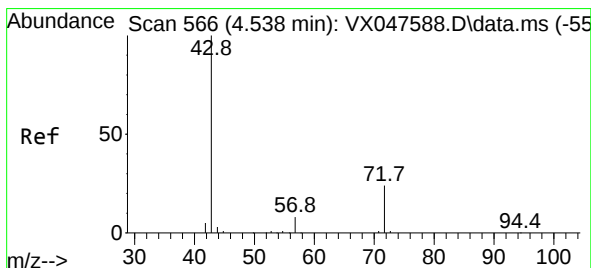
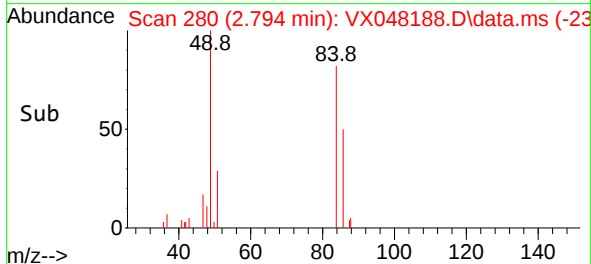
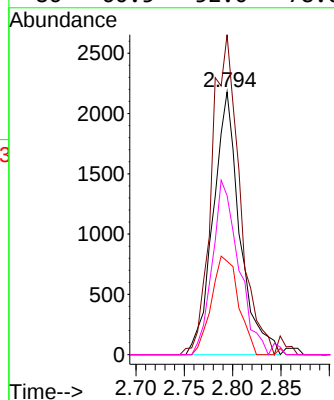


#20
Methylene Chloride
Concen: 2.380 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

Instrument :
MSVOA_X
ClientSampleId :

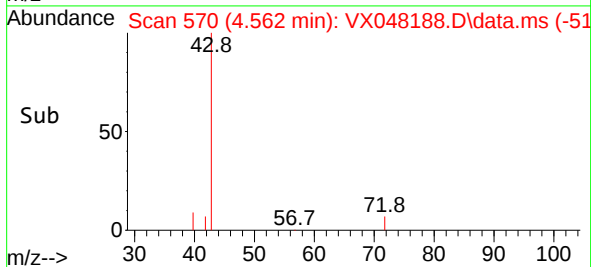
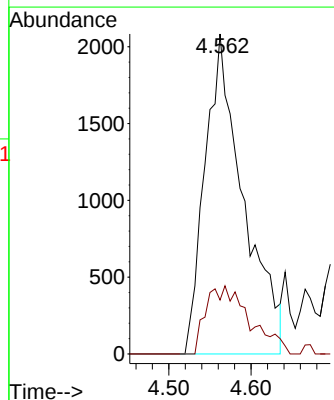
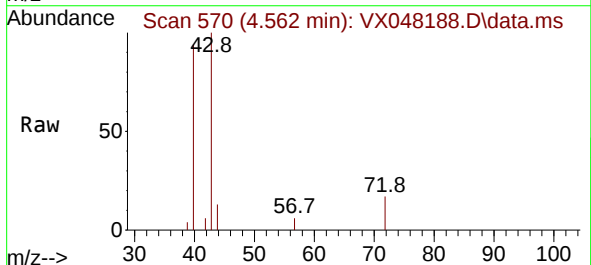


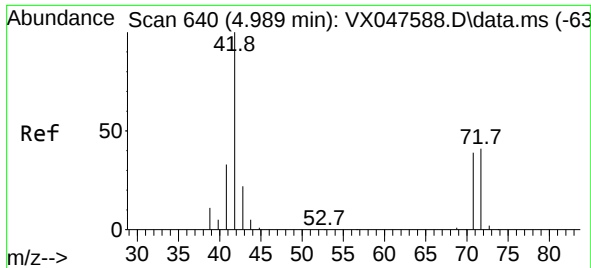
Tgt Ion:	84	Resp:	4166
Ion	Ratio	Lower	Upper
84	100		
49	121.8	108.6	162.8
51	35.6	32.6	48.8
86	60.5	52.0	78.0



#25
2-Butanone
Concen: 6.536 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.024 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

Tgt Ion:	43	Resp:	6741
Ion	Ratio	Lower	Upper
43	100		
72	20.0	20.1	30.1#





#29

Tetrahydrofuran

Concen: 0.587 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.024 min

Lab File: VX048188.D

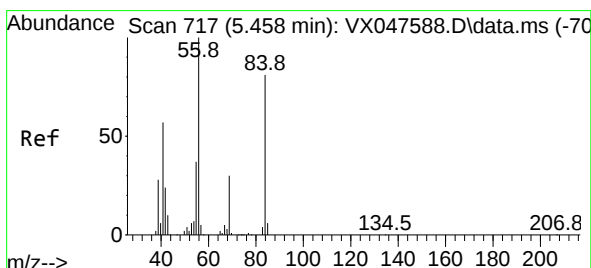
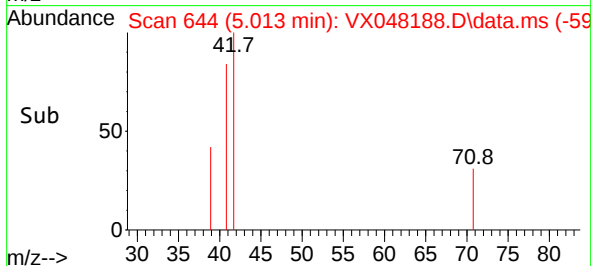
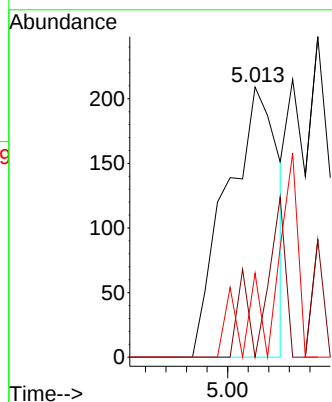
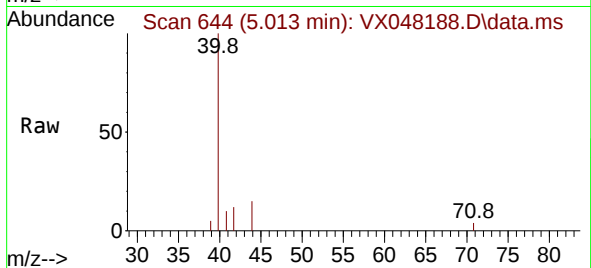
Acq: 15 Oct 2025 14:15

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	42	Resp:	364
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.2	51.2#
71	5.5	31.9	47.9#



#31

Cyclohexane

Concen: 1.013 ug/l

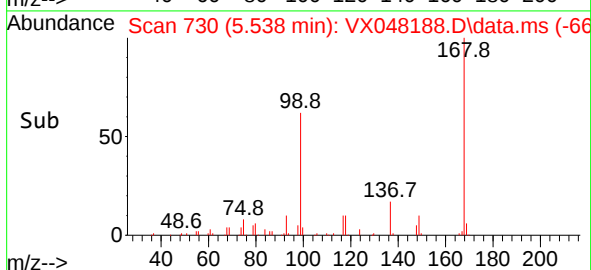
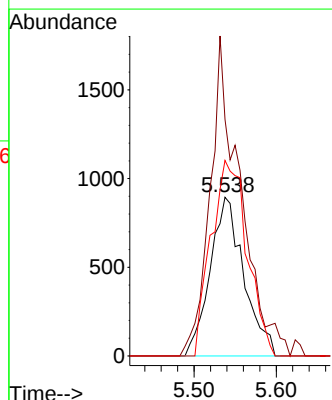
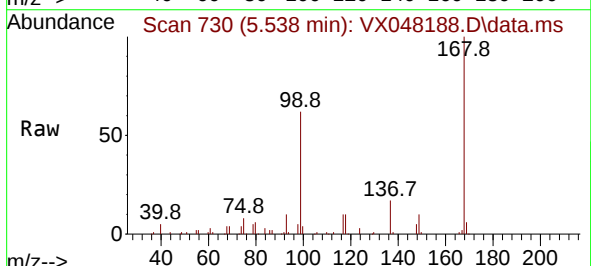
RT: 5.538 min Scan# 730

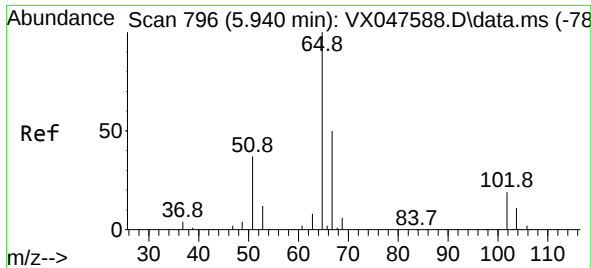
Delta R.T. 0.079 min

Lab File: VX048188.D

Acq: 15 Oct 2025 14:15

Tgt Ion:	56	Resp:	2545
Ion	Ratio	Lower	Upper
56	100		
69	149.1	23.8	35.8#
84	123.1	64.6	97.0#

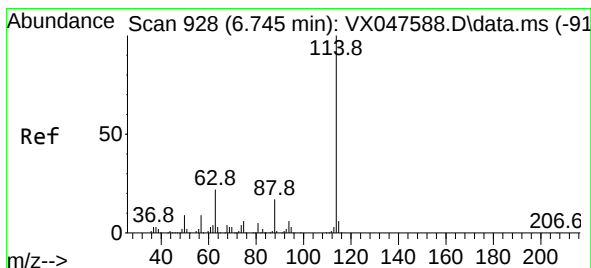
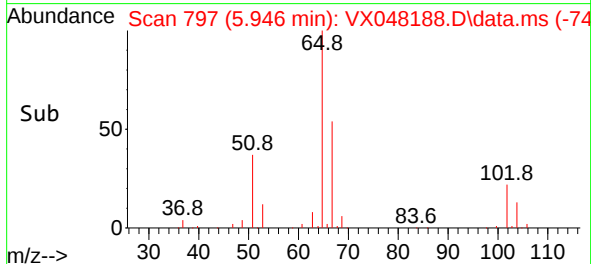
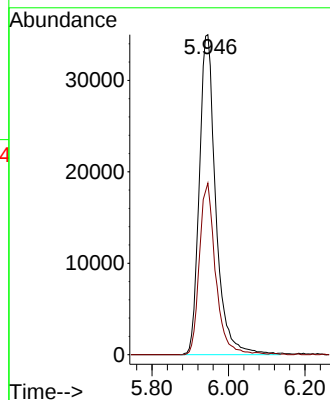
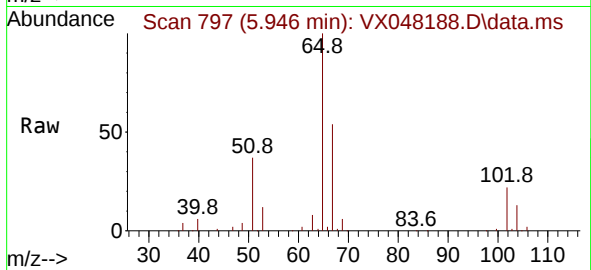




#33
 1,2-Dichloroethane-d4
 Concen: 55.047 ug/l
 RT: 5.946 min Scan# 796
 Delta R.T. 0.006 min
 Lab File: VX048188.D
 Acq: 15 Oct 2025 14:15

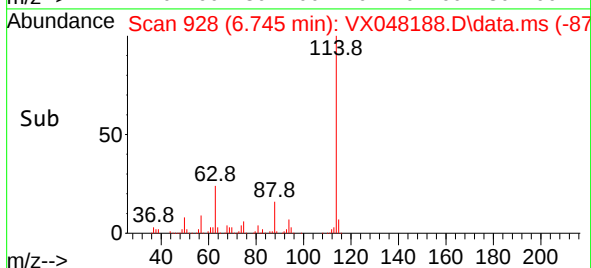
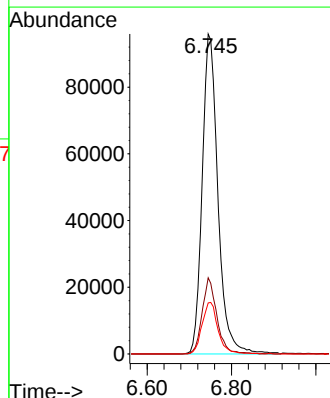
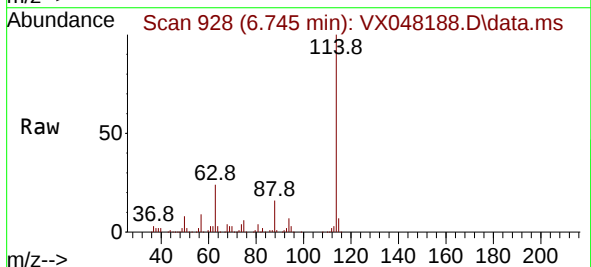
Instrument :
 MSVOA_X
 ClientSampleId :

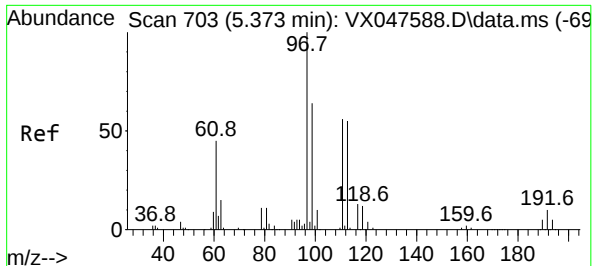
Tgt Ion: 65 Resp: 104673
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.745 min Scan# 928
 Delta R.T. -0.000 min
 Lab File: VX048188.D
 Acq: 15 Oct 2025 14:15

Tgt Ion: 114 Resp: 249438
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 44.0
 88 16.0 0.0 34.2





#35

Dibromofluoromethane

Concen: 48.639 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

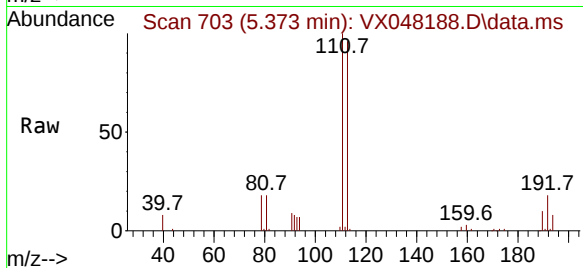
Lab File: VX048188.D

Acq: 15 Oct 2025 14:15

Instrument :

MSVOA_X

ClientSampleId :



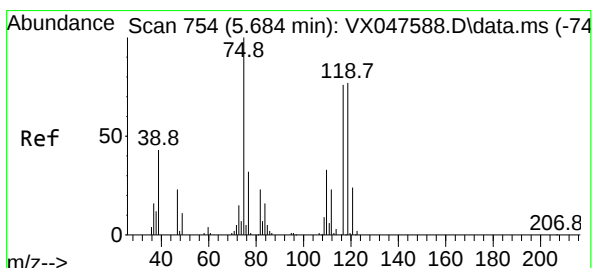
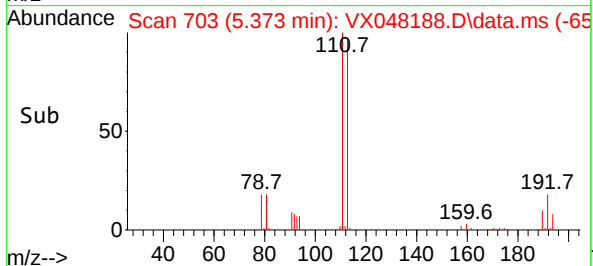
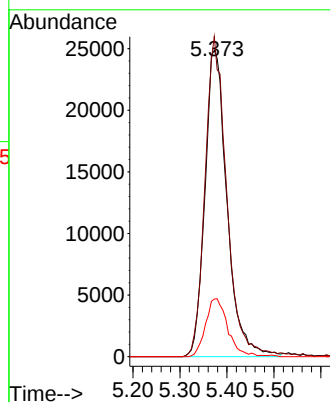
Tgt Ion:113 Resp: 81366

Ion Ratio Lower Upper

113 100

111 102.9 80.9 121.3

192 18.9 14.2 21.4



#36

1,1-Dichloropropene

Concen: 3.800 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX048188.D

Acq: 15 Oct 2025 14:15

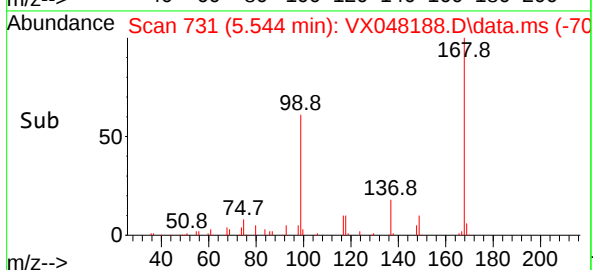
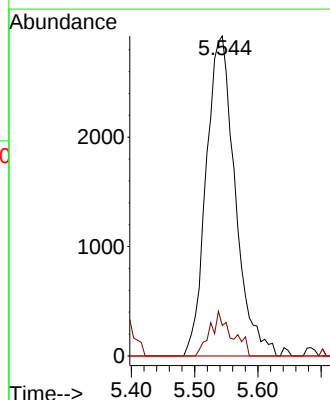
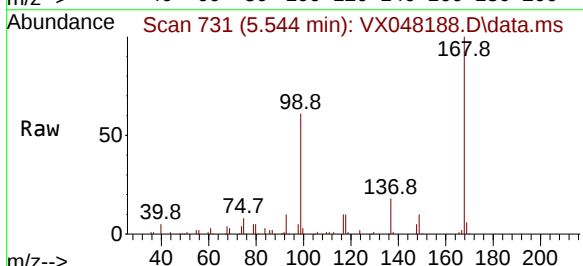
Tgt Ion: 75 Resp: 9290

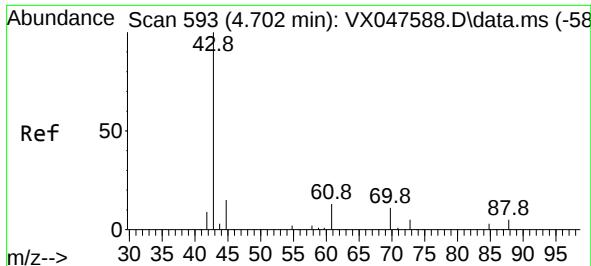
Ion Ratio Lower Upper

75 100

110 8.4 16.7 50.1#

77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 1.196 ug/l

RT: 4.715 min Scan# 593

Delta R.T. 0.012 min

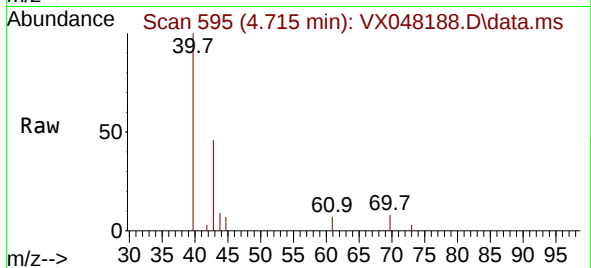
Lab File: VX048188.D

Acq: 15 Oct 2025 14:15

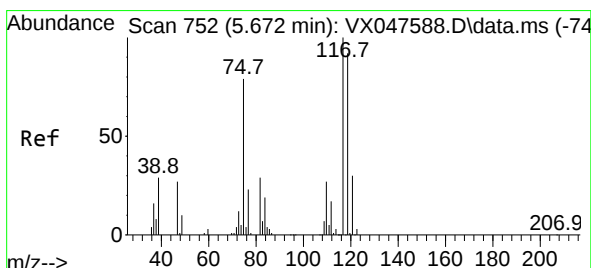
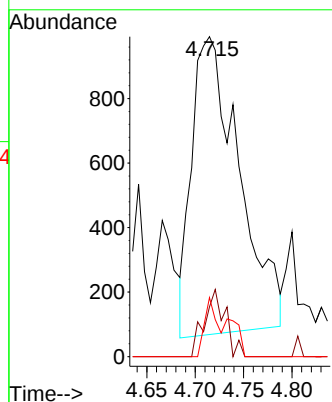
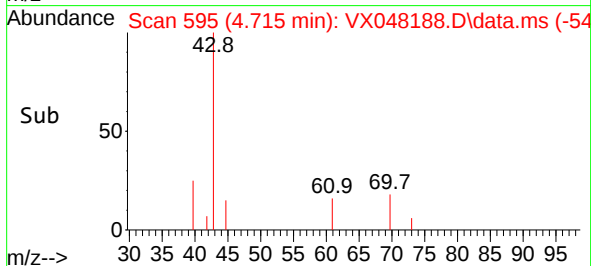
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	43	Resp:	3130
Ion	Ratio	Lower	Upper
43	100		
61	10.1	9.8	14.8
70	5.4	7.9	11.9#



#38

Carbon Tetrachloride

Concen: 4.799 ug/l

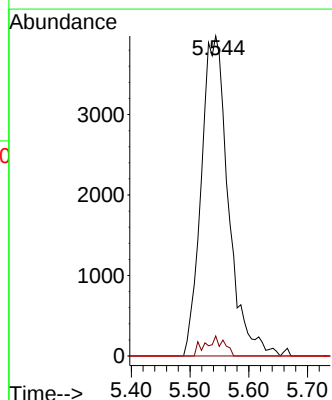
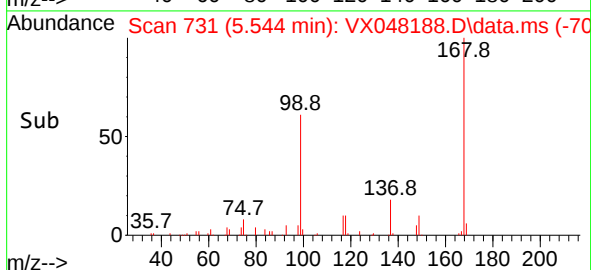
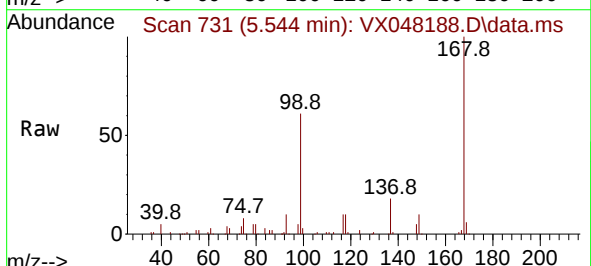
RT: 5.544 min Scan# 731

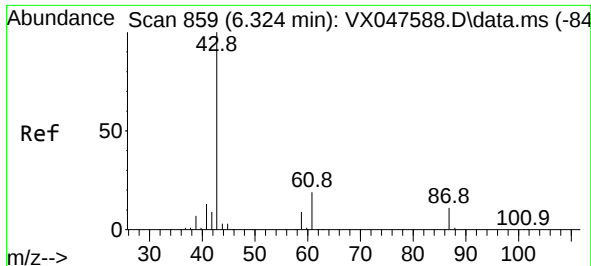
Delta R.T. -0.128 min

Lab File: VX048188.D

Acq: 15 Oct 2025 14:15

Tgt Ion:	117	Resp:	12745
Ion	Ratio	Lower	Upper
117	100		
119	6.2	73.4	110.2#
121	0.0	23.8	35.6#

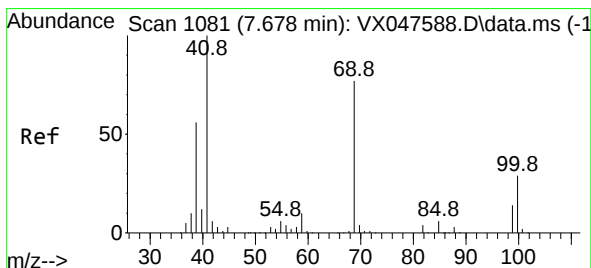
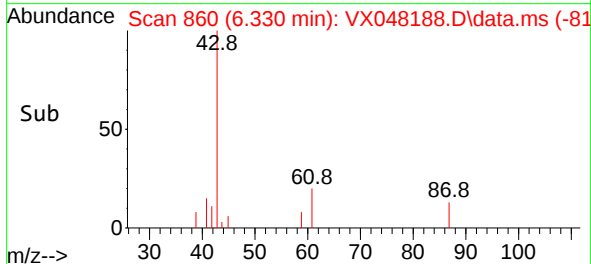
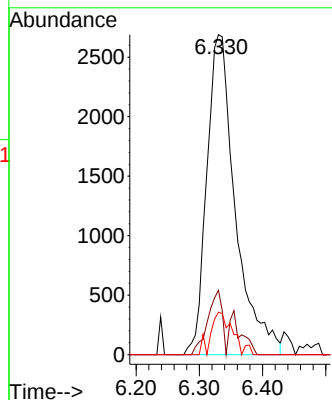
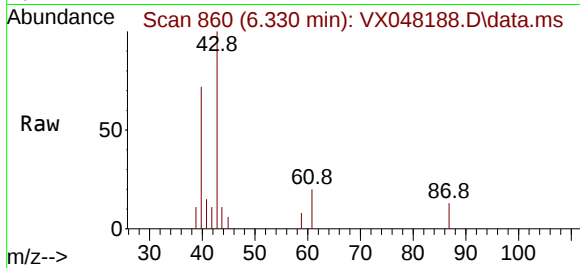




#43
Isopropyl Acetate
Concen: 1.968 ug/l
RT: 6.330 min Scan# 80
Delta R.T. 0.006 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

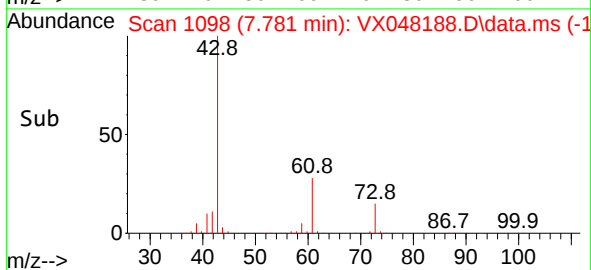
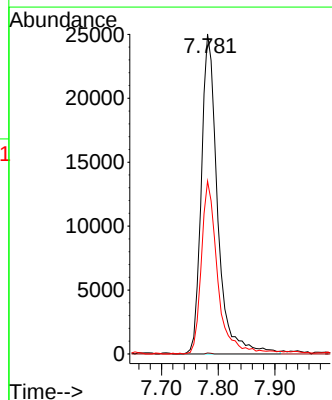
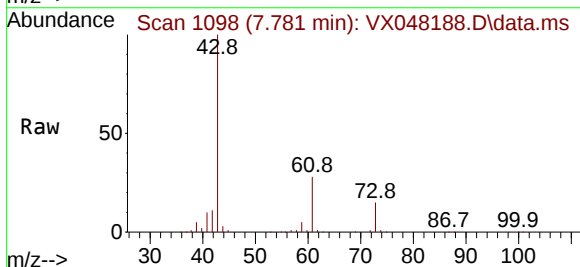
Instrument :
MSVOA_X
ClientSampleId :

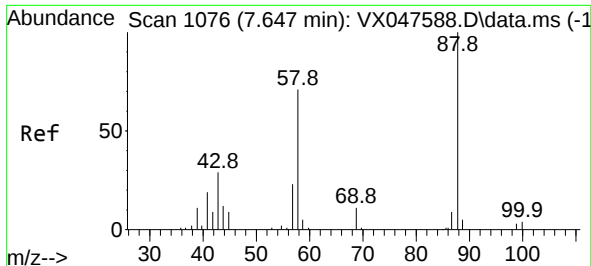
Tgt Ion: 43 Resp: 8446
Ion Ratio Lower Upper
43 100
61 10.2 15.2 22.8#
87 10.1 9.6 14.4



#48
Methyl methacrylate
Concen: 23.274 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

Tgt Ion: 41 Resp: 49764
Ion Ratio Lower Upper
41 100
69 0.1 61.4 92.2#
39 53.9 45.8 68.6





#49

1,4-Dioxane

Concen: 2.592 ug/l

RT: 7.781 min Scan# 1098

Delta R.T. 0.134 min

Lab File: VX048188.D

Acq: 15 Oct 2025 14:15

Instrument :

MSVOA_X

ClientSampleId :

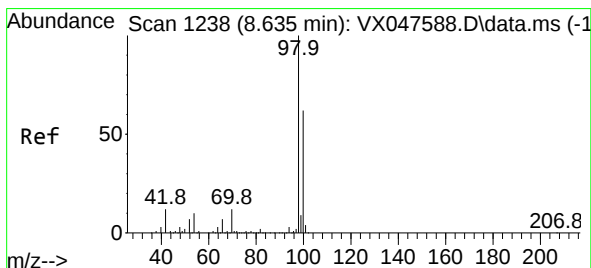
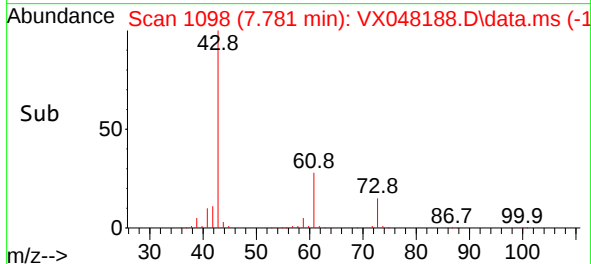
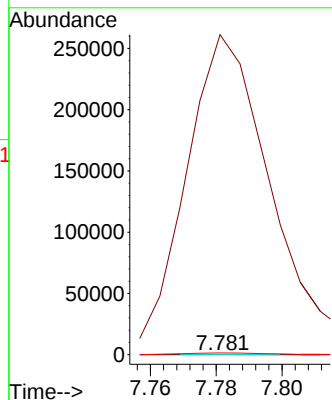
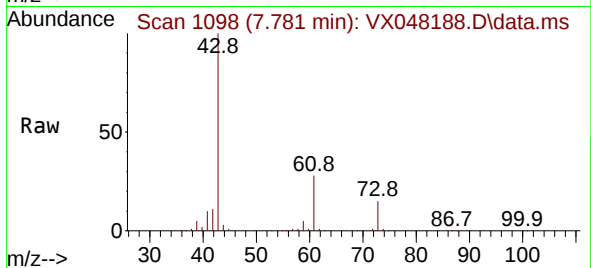
Tgt Ion: 88 Resp: 56

Ion Ratio Lower Upper

88 100

43 897875.0 30.2 45.2#

58 5201.8 59.5 89.3#



#50

Toluene-d8

Concen: 50.772 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048188.D

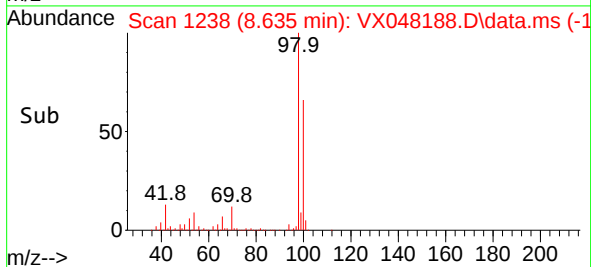
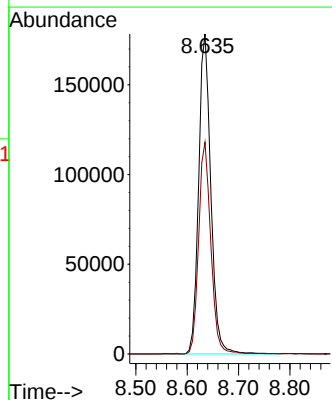
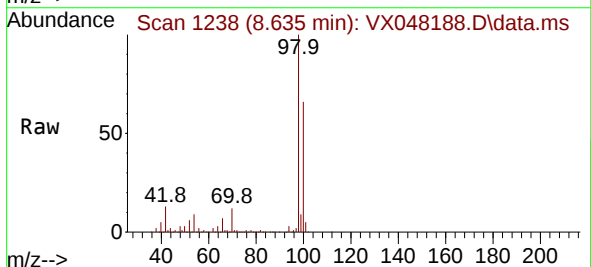
Acq: 15 Oct 2025 14:15

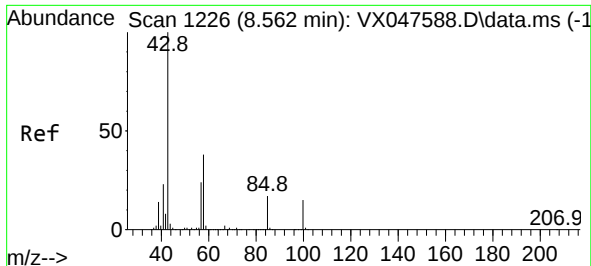
Tgt Ion: 98 Resp: 293894

Ion Ratio Lower Upper

98 100

100 66.2 53.0 79.4





#51

4-Methyl-2-Pentanone

Concen: 23.780 ug/l

RT: 8.531 min Scan# 11

Delta R.T. -0.031 min

Lab File: VX048188.D

Acq: 15 Oct 2025 14:15

Instrument :

MSVOA_X

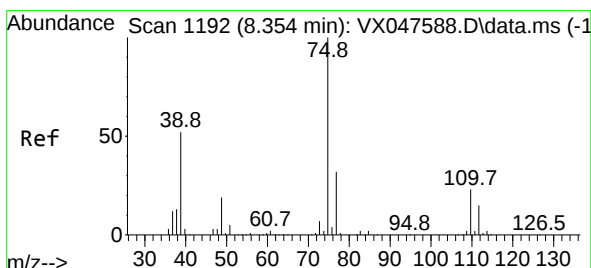
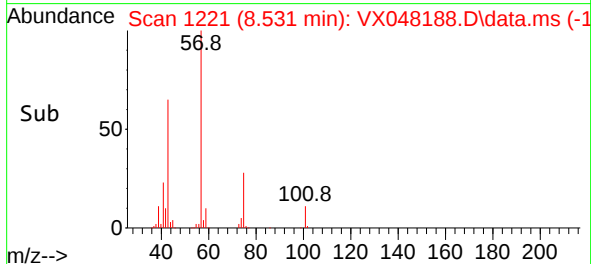
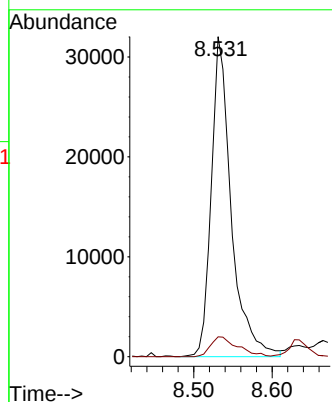
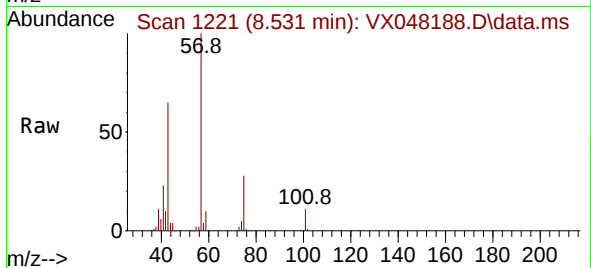
ClientSampleId :

Tgt Ion: 43 Resp: 56595

Ion Ratio Lower Upper

43 100

58 8.5 30.3 45.5#



#54

cis-1,3-Dichloropropene

Concen: 7.939 ug/l

RT: 8.537 min Scan# 1222

Delta R.T. 0.183 min

Lab File: VX048188.D

Acq: 15 Oct 2025 14:15

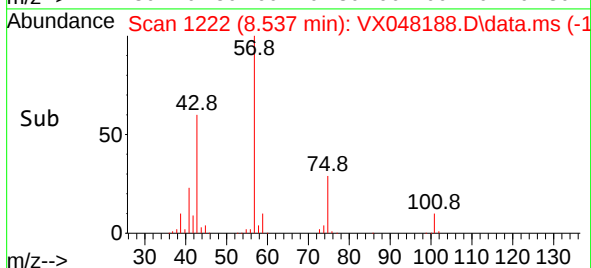
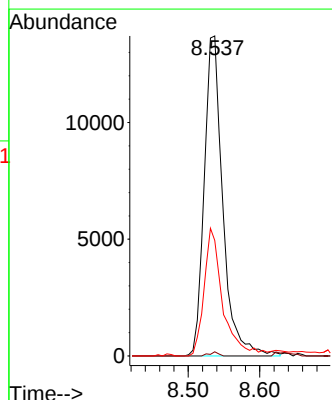
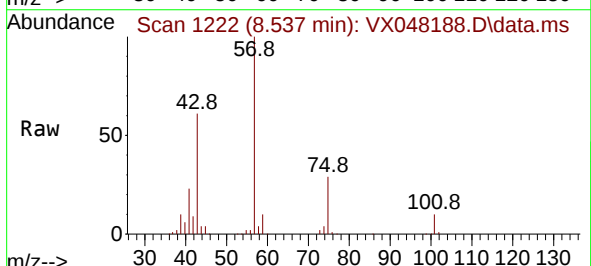
Tgt Ion: 75 Resp: 24709

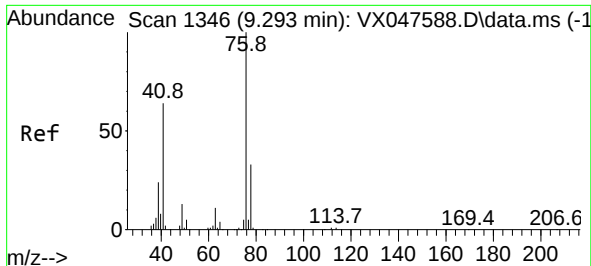
Ion Ratio Lower Upper

75 100

77 1.3 25.8 38.6#

39 36.1 41.4 62.2#

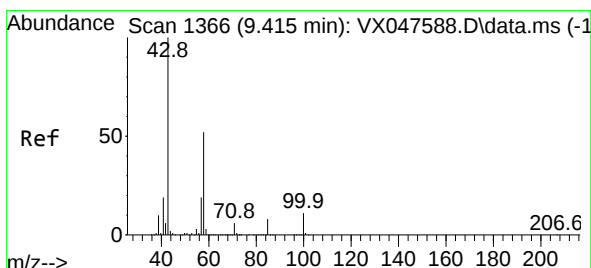
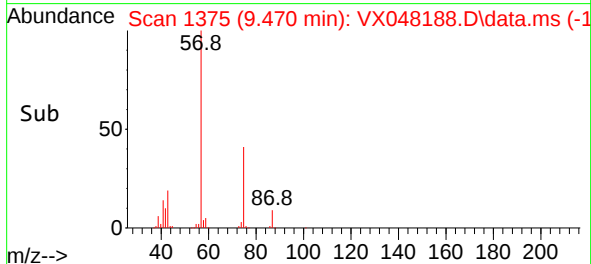
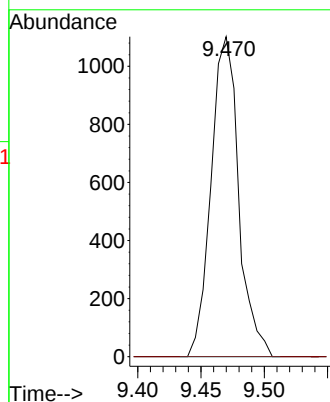
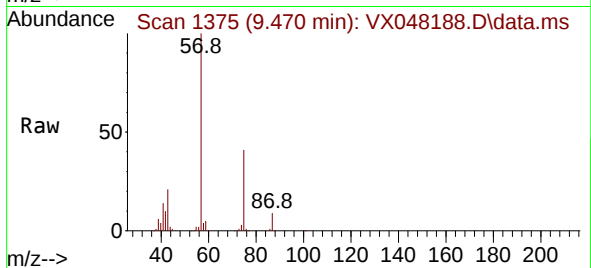




#57
1,3-Dichloropropane
Concen: 0.552 ug/l
RT: 9.470 min Scan# 11
Delta R.T. 0.177 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

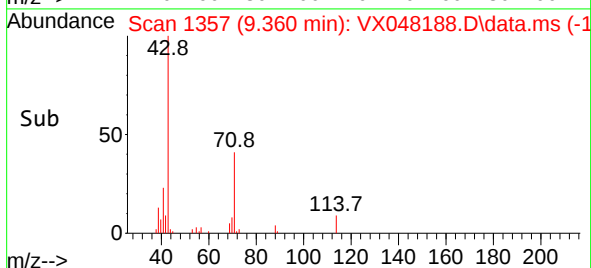
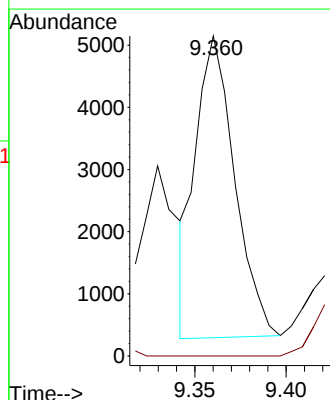
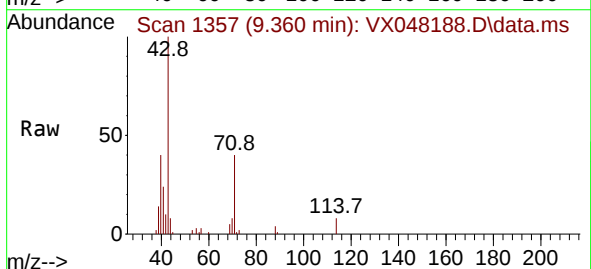
Instrument :
MSVOA_X
ClientSampleId :

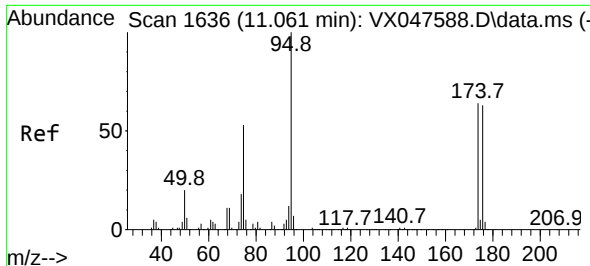
Tgt Ion: 76 Resp: 1673
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 4.222 ug/l
RT: 9.360 min Scan# 1357
Delta R.T. -0.055 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

Tgt Ion: 43 Resp: 7217
Ion Ratio Lower Upper
43 100
58 0.0 26.1 78.2#

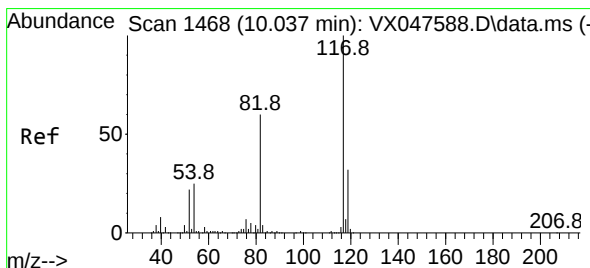
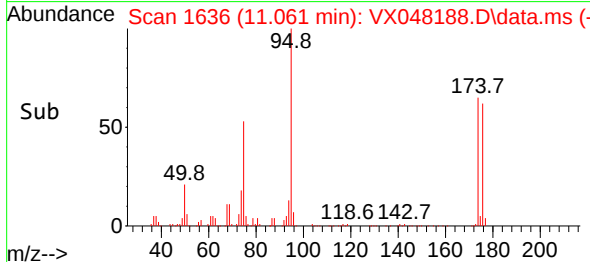
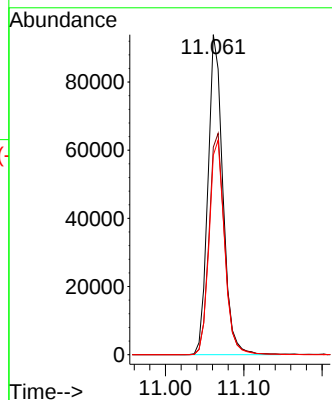
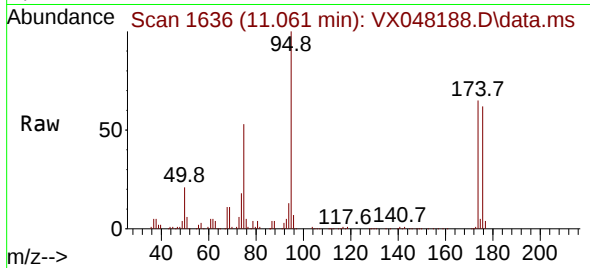




#62
4-Bromofluorobenzene
Concen: 56.371 ug/l
RT: 11.061 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

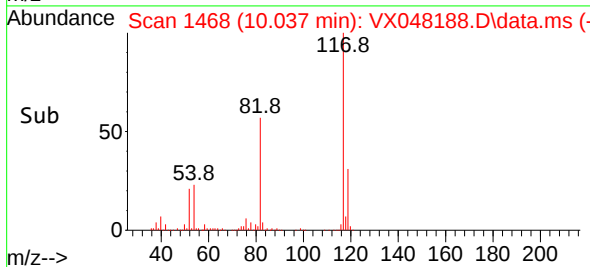
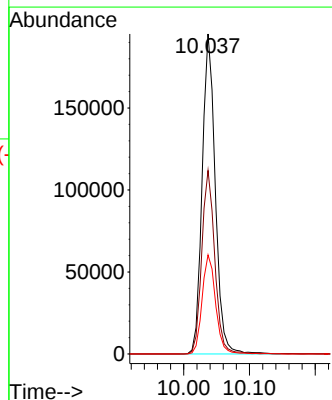
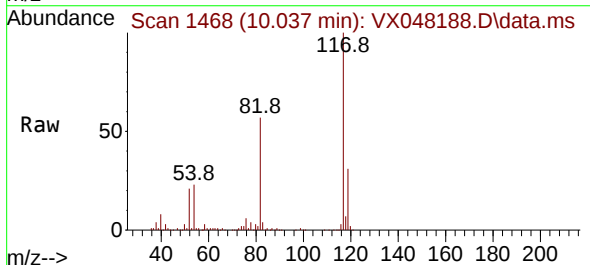
Instrument :
MSVOA_X
ClientSampleId :

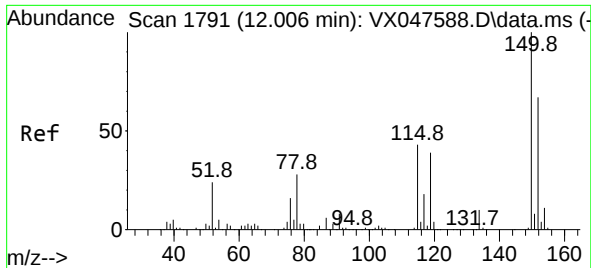
Tgt Ion: 95 Resp: 123837
Ion Ratio Lower Upper
95 100
174 72.3 0.0 141.6
176 69.6 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048188.D
Acq: 15 Oct 2025 14:15

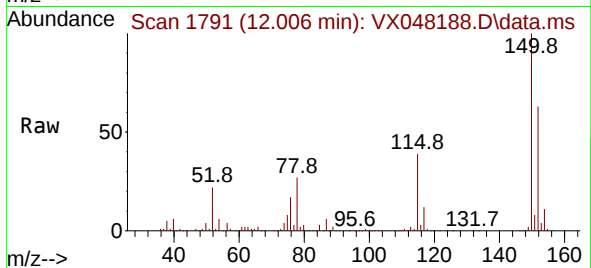
Tgt Ion: 117 Resp: 270971
Ion Ratio Lower Upper
117 100
82 57.4 47.8 71.6
119 31.0 25.2 37.8



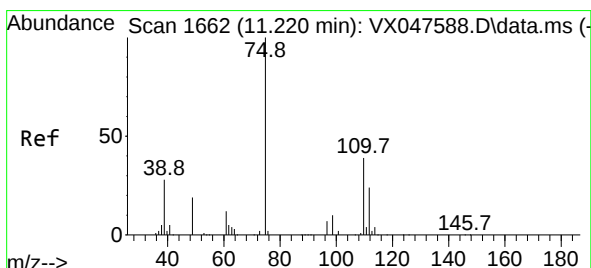
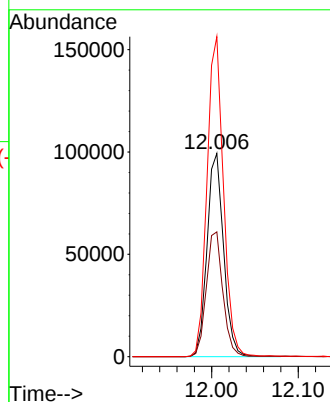
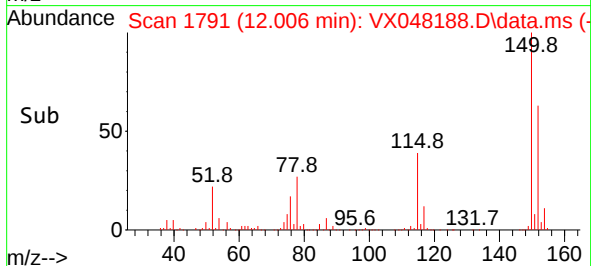


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048188.D
 Acq: 15 Oct 2025 14:15

Instrument :
 MSVOA_X
 ClientSampleId :

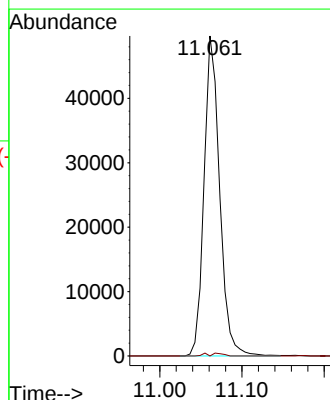
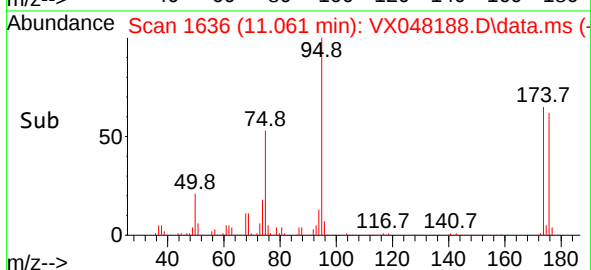
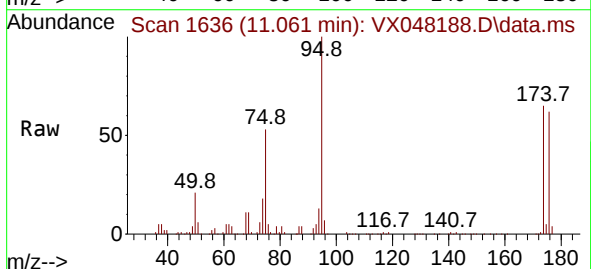


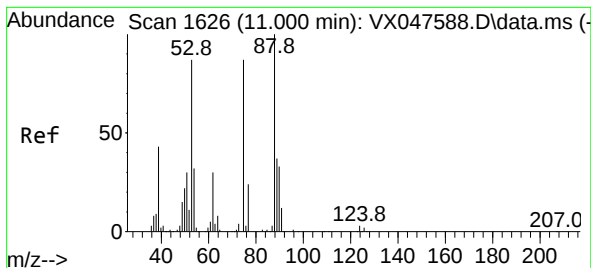
Tgt Ion:152 Resp: 131653
 Ion Ratio Lower Upper
 152 100
 115 61.8 44.9 134.5
 150 156.8 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 24.597 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048188.D
 Acq: 15 Oct 2025 14:15

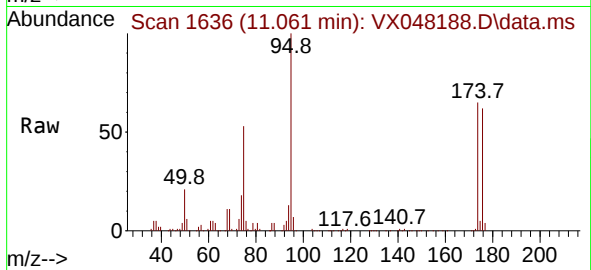
Tgt Ion: 75 Resp: 65566
 Ion Ratio Lower Upper
 75 100
 77 0.6 18.8 56.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.727 ug/l
 RT: 11.061 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX048188.D
 Acq: 15 Oct 2025 14:15

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion: 75 Resp: 65566
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.4 125.2#
 89 0.0 36.3 54.5#

